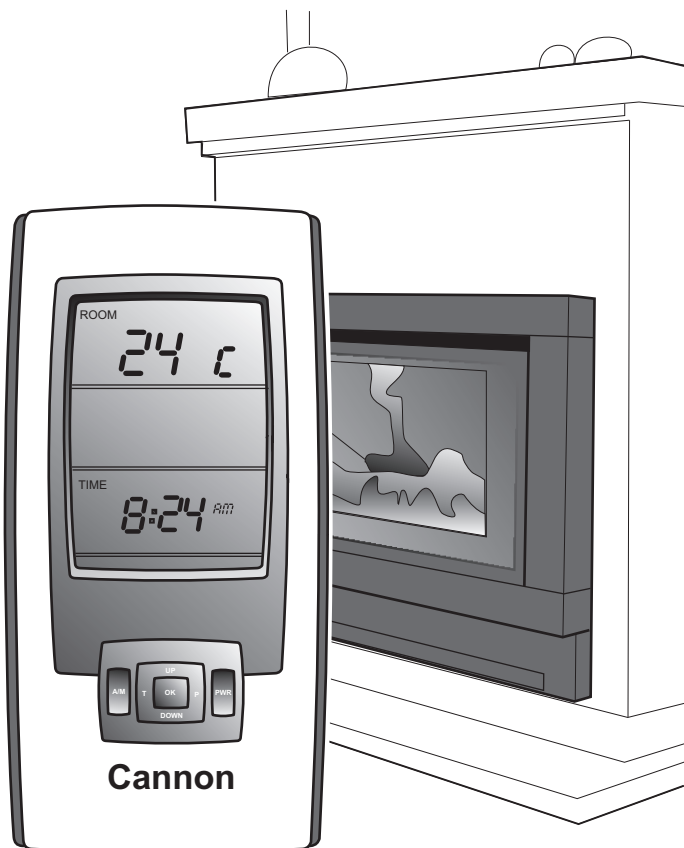


THERMOSTAT USER MANUAL

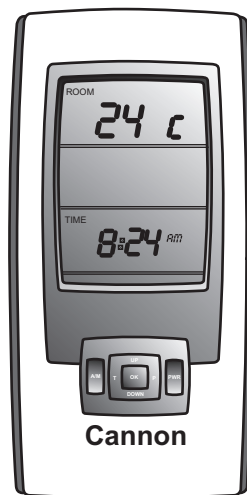


Sampford IXL

CONTENTS

Quick start guide.	2
Safety warnings	3
Features	4
Thermostat LCD	5
Functions	6 -7
Button functions	
Programming button functions	
Initial setup	8
On / Off	
Time and day of the week	
Manual mode	9
Automatic mode	9
Programming	11 -10
Programming screen displays	12
Program mode	13
Factory default settings	
Your settings	
Settings	14
Change between C° and F°	
Restore factory default settings	
Teaching the thermostat ID code to the control unit	
Frequently asked questions	15
Quick reference table	16
Back Up Switch	17
Service	18

Battery type: 2 X AA batteries
Battery life : approximately 12 months
Transmission frequency: 433.92 Mhz
Dimensions: 140MM x 80mm x 20mm



QUICK START GUIDE

This Remote Thermostat is a room thermostat and to function correctly it should be located in the same room as the heater within personal comfort zone.

To start heater.

Select “PWR” and “OK” buttons and press them together (then release).
Select Auto or Manual by pressing “A/M” button (then release).

The heater will only operate if the actual room temperature is lower than the required temperature.

Manual Mode:

Press “A/M” Button to select “Manual” mode.

The required temperature can be selected by using ‘UP’ or ‘DOWN’ buttons.

Room temperature is shown at top of screen.

Selected temperature shown at mid screen.

Automatic Mode

Press “A/M” Button to select “Auto” mode.

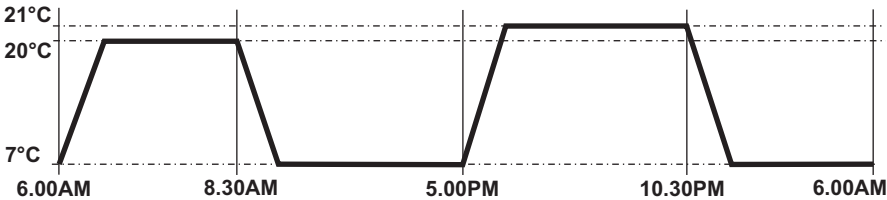
Set **current** time and date. (See setting time and date later in manual.)

The thermostat is factory set with the default settings shown below and will operate at settings indicated. If you wish to change these times or temperatures see the Programming section later in manual.

Automatic Factory default settings

Time Period	Start Time	Heat Temperature (°C)
Wake up.	6.00 am	20 °C
Away.	8.30 am	7 °C
Coming home.	5.00 pm	21 °C
Sleep.	10.30 pm	7 °C

The room will be maintained at set temperature during set period.



Factory default settings

At any time during the automatic program period, the temperature can be increased or decreased by pressing the “UP” or “DOWN” buttons.

SAFETY WARNINGS

Do not place clothing or other flammable material on or near the heater. Keep curtains, clothing, furniture and other flammable materials at least 900mm from front and sides of the heater.

At the owners discretion curtain clearances can be less than 900mm as long as they are restrained from the front, top and sides of the heater.

The manufacturer takes no responsibility if curtain clearance is less than 900mm and not restrained.

For full safety warning information, Refer to Heater User Instructions.

CAUTION: The thermostat has already been programmed with a unique code. Do not attempt to teach the RF Thermostat ID code unless instructed by the manufacturer.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for safety. Children should be supervised to ensure that they do not play with the appliance.

Features of your thermostat model heater:

This heater features a safety interlock mode to prevent accidental or inappropriate activation of the hand held remote control unit. It requires both "PWR" and "OK" buttons be pressed at the same time to turn on the controller.

If the controller is turned on and there is a requirement for heating, the heater will start up on Low Fire and Low Fan and operate for approximately 3 minutes.

The heater will then go to your preset desired temperature functions on the remote controller

Once the selected room temperature has been reached, the heater will go to Low Fire and Low Fan.

The full description on the operation of the heater is described in more detail in the following section.

Features of your thermostat model heater:

Auto mode cycle.

The heater on start will operate on Low Fire and fan for approx 3 minutes. The heater will then go to your preset desired settings on Remote Thermostat. (Auto or Manual)

As the preset temperature is reached, the heater will go to Low Fire and Low Fan. If the preset temperature is exceeded, the burner is extinguished and the fan will run on at low setting for approximately 3 min. If room temperature is still higher than preset temperature, the heater will stop. Once room temperature drops below preset temperature, the heater will resume operation and continue the program cycle..

This feature is dependant upon the preset programmed temperature and where the thermostat is located in the room. (See diagram below)

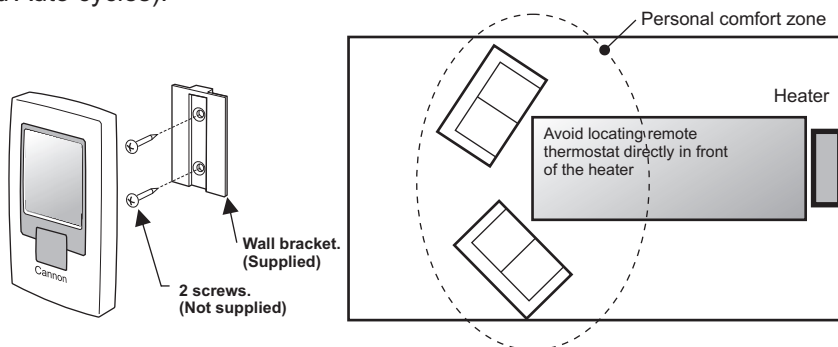
The heater can be set with your personal settings including temperature, start and stop times and days of week.
(see programming section for setting temperatures and operating times.)

Manual mode cycle

The heater on start will operate on Low Fire and fan for approx 3 minutes. The heater will then go to your preset desired settings on remote thermostat.

As the preset temperature is reached, the heater will go to Low Fire and Low Fan. When the heater preset temperature is exceeded, the burner is extinguished and the fan will run on at low setting for approximately 3 min. If room temperature is still higher than preset temperature the heater will stop. Once room temperature drops below preset temperature, the heater will resume operation and continue the program cycle..

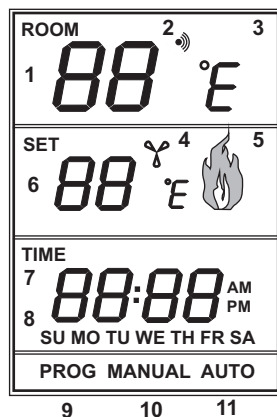
When heater is shut down, fan will continue to operate on low for a further period of 3 - 4 min to assist cooling down of the heater (common to Manual and Auto cycles).



Thermostat should be located within the personal comfort zone of the room. (This is dependant on room layout and heater positioning.)
The remote can also be wall mounted using the bracket supplied.

Thermostat LCD

Full display



LCD Display features.

1. Temperature of Room in (C or F)
2. Transmitting indicator
3. Battery low indicator
4. Fan operating and speed
5. Fire indicator(low, medium or high)**
6. Selected Temperature in C or F)
7. Time of day (in AM or PM)
8. Day of week
9. Programming mode
10. Manual mode
11. Automatic mode










** Although a medium Fire is displayed it is not available on this heater, it is actually operating on High Fire when displayed.



Initial Display on set up.







The display when the thermostat is initially turned on or when batteries are replaced shows;

Current room temperature;
default clock display;
Default day of the week display.



Feature		Symbol	Description
Time of day			Displays the time of day in hours and minutes, AM or PM. The time is displayed when the thermostat is on or off.
Day of week	SU MO TU WE TH FR SA		Displays the current day of the week. The day is displayed when the thermostat is on or off.
Temperature display			Displays the current temperature. C° is the default but F° is available. The temperature range is 7°C to 32°C.
Room set indicator			When the thermostat is on, the programmed (set) temperature will be displayed. When the thermostat is off, only the room temperature will be displayed.
Transmit indicator			Indicates that the thermostat is transmitting to the receiver, the symbol will appear on the LCD for 1 second.
Battery low indicator			Indicates that battery power is below an acceptable level. The symbol will flash to indicate that the batteries need replacing. The thermostat will remain functional for approximately another 5 days before shutting down.
Programming mode indicator			Indicates that the thermostat is in programming mode.
Automatic / manual mode indication			Indicates whether the thermostat is in manual or automatic mode.
Flame indicator			Indicates the flame height: HIGH FIRE MEDIUM FIRE* LOW FIRE *Medium Fire is not a function of this heater
Fan indicator			Indicates the fan speed. The fan ranges are graduated settings: 1, 2, 3.

Functions

Button Functions

Button		Function	Description
PWR		On	Switches the thermostat on. If the thermostat is off, pressing and releasing the PWR and OK button together will turn the thermostat on to the most recently selected working mode.
		Off	Switches the unit off.
OK		Enter	Accepts the current function and advances the next function.
UP			Increment hours, minutes, day or temperature.
DOWN			Decrement hours, minutes, day or temperature.
A / M		Automatic / Manual	Toggles between automatic and manual mode.

Programming button function

T		Time	Indicates time and day of the week programming (must press and hold for 2 or more seconds when thermostat is off).
P		Program	Indicates the programming mode (must press and hold for 2 or more seconds when thermostat is off).

Initial Setup

ON

If the 'PWR' is off, the heater will not start.

Press and release the 'PWR' and 'OK' buttons together, pressing and releasing 'PWR' and 'OK' buttons will turn the thermostat on to the most recently selected working mode or the factory default setting if not previously programmed.

Note small Red LED Display light will be displayed constantly while heater is on. Will

flash intermittently when unit is not in operation.

OFF

Press and release the 'PWR' will shut unit down.

Setting the day of the week and time.

With the thermostat off, press and hold the 'T' button for 2 seconds or longer to initiate programming the time. *Time*, the *hour* setting and the AM / PM will flash.

Setting the hour function.

Press and release the 'UP' or 'DOWN' button to increase or decrease the hour setting by 1 hour.

Press and hold the 'UP' or 'DOWN' button for 2 seconds or longer to increase or decrease the hour setting by 1 hour every 0.5 seconds.

Press 'OK' to accept and select the minute.

Setting the minute function.

Press and release, or press and hold down the 'UP' or 'DOWN' button to increase or decrease the minute setting by 1 minute similarly to the hour setting.

Press 'OK' to accept and select the day of the week.

Setting the day of the week function.

Press and release the 'UP' or 'DOWN' button to change the day of the week to the following or previous day. Press and hold the 'UP' or 'DOWN' button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds.

Press 'OK' to complete setting.

The time and day of the week is now set.

Note: Use the outer edge of buttons to toggle through functions.

Back up Switch.

In the event that Thermostat remote is in operative ie Flat batteries or damaged unit can still be used but only on the one factory setting of high fire Medium fan. Unit will start as per normal 3 minutes on Low Fire and Fan, but them will go to High Fire, Medium Fan. This switch is only for use in the event of failure of Remote Thermostat.

Manual mode.

The *manual* mode allows setting the temperature at any level.

To select Manual mode, firstly the thermostat must be turned on, then press and release the 'A/M' button until *MANUAL* appears on the display.

Flame height and Fan speed.

The flame height and fan speed are not manually adjustable. The flame height and fan speed are set by the thermostat according to the difference between the set temperature and the current temperature.

The flame height (Low or High Fire) or Fan Speeds are not manually adjustable.

They are automatically controlled by the thermostat in the program cycle. This will vary according to the selected temperature and the actual room temperature.

The display may show a Medium Fire symbol during operation however this function is not available with this heater and the heater will be operating on High Fire when Medium fire symbol is displayed.

Adjusting the temperature.

In the *manual* mode, adjust the set temperature by pressing or releasing the 'UP' or 'DOWN' buttons. Press and hold the 'UP' or 'DOWN' buttons to increase or decrease the temperature by 1°C every 0.5 seconds..

Automatic mode.

The *automatic* mode allows the temperature to be regulated according to a programmed level and time.

With the thermostat on, press and release the 'A/M' button until the word AUTO appears on the LCD.

To correctly operate in *automatic* mode, the time and day of the week must be set.

The thermostat will now operate according to the program set for the current time period. Programming instructions are found on page 10.

Manually overriding the set program.

At any time, the temperature or fan speed may be adjusted up or down similar to operating in *manual* mode.

However, whenever the thermostat changes to a new time period, the temperature will be *reset* automatically according to that period's setting.

Programming

Each day of the week can be programmed individually for periods P1, P2, P3, and P4, making a total of 28 programmed periods.

Alternatively, a weekday program can be set, so the same program is used for Monday to Friday. Similarly, a weekday program can be set for Saturday - Sunday. The entire week can also have the same program.

Alternatively, a weekday or weekend program can be set with individual programs for the remaining days.

The suggested period settings for each day/s are:

Period 1 - morning	(Wake up)
Period 2 - daytime	(Away)
Period 3 - evening	(Coming home)
Period 4 - night time.	(Sleep)

To begin programming.

With the thermostat off, press and hold the 'P' button for 2 seconds or longer to initiate programming. The LCD will display **PROG**, **Pd** and the time at which the thermostat is currently set **MO** will flash.

Period 1 can now be set.

Setting the day of the week.

You must choose which day/s of the week you wish to program.

Press and release the 'UP' or 'DOWN' button to change the day of the week to the following or previous day. Press and hold the 'UP' or 'DOWN' button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds.

The order that you can scroll through the days is as follows:

MO>TU>WE>TH>FR>MO TU WE TH FR>SA>SU>SU SA>MO TU WE TH FR SA SU

To accept the selected day/s of the week press 'OK'.

Setting the period starting time.

The hour and AM / PM settings will now flash. To set the P1 starting time, press and release the 'UP' and 'DOWN' button to increase or decrease the hour setting. Press and hold the 'UP' or 'DOWN' button for 2 seconds or longer to increase or decrease the hour setting by 1 hour every 0.5 seconds.

The hour function is in 12 hour time, so please ensure that AM or PM is set correctly.

To accept the hour press 'OK'.

The minute setting will flash. Adjust the minute setting similarly using 'UP' or 'DOWN' buttons.

To accept the minute press 'OK'.

Setting the temperature.

The temperature setting will now flash. Press and release the 'UP' or 'DOWN' button to increase or decrease the temperature setting by 1°C. Press and hold the 'UP' or 'DOWN' button for 2 seconds or longer to increase or decrease the temperature setting by 1°C every 0.5 seconds. To accept the temperature press 'OK'.

Period 1 is now set for the day/s of the week that you have chosen. The LCD will display **P2** to indicate that period 2 can now be set for the same day/s of the week.

Repeat the programming process for periods 3 and 4.

After program 4 is set, press 'OK' and the program for the selected day/s will be set.

The thermostat will now automatically turn off.

Repeat the programming process for any other periods/days that are required.

ROOM Pd
SET
TIME 88:88 AM SU MO TU WE TH FR SA
PROG

Set period day.
Days of week flash.

ROOM P1
SET 20 °C
TIME 6:00 AM MO
PROG

Set hours.
Time and hours flash.

ROOM P1
SET 20 °C
TIME 6:00 AM MO
PROG

Set minutes.
Time and minutes flash.

P1
SET 20 °C
TIME 6:00 AM MO
PROG

Period 1.

P2
SET 7 °C
TIME 8:30 AM MO
PROG

Period 2.

P3
SET 21 °C
TIME 5:00 PM MO
PROG

Period 3.

Set temperature.
Set and temperature
flash.

P4
SET 7 °C
TIME 10:30 PM MO
PROG

Period 4.

Program mode

Factory default settings

Time Period	Start Time	Heat Temperature (°C)
Wake up.	6.00 am	20 °C
Away.	8.30 am	7 °C
Coming home.	5.00 pm	21 °C
Sleep .	10.30 pm	7 °C

The room will be maintained at set temperature during set period.

Your Settings

After programming, record your personal settings weekday and weekend settings here for future reference.

Weekdays

Time Period	Start Time	Heat Temperature (°C)
Wake up.	am	°C
Away.	am	°C
Coming home .	pm	°C
Sleep.	pm	°C

Weekend

Time Period	Start Time	Heat Temperature (°C)
Wake up.	am	°C
Away.	am	°C
Coming home .	pm	°C
Sleep.	pm	°C

Settings

Please note, thermostat settings need to be actioned within a period of 2 seconds total.

Change between °C and °F

The thermostat temperature display can be set to °C or °F. The default is °C.

With the thermostat off, press the following sequence of buttons:

'P', 'T', 'T', 'A/M'.

Restore factory default settings.

The automatic mode factory default settings can be restored to those found on page 10.

With the thermostat off, press the following sequence of buttons:

'P', 'T', 'T', 'DOWN'.

Teaching RF thermostat ID code to control unit.

CAUTION: The thermostat has already been programmed with a unique code. Do not attempt to teach the RF Thermostat ID code unless instructed by the manufacturer.

The LCD display will show 'CL' (Code Learn) for 2 seconds then return to the normal OFF state display. During this time a special code will be transmitted by the Thermostat to the Control Unit, causing the Control Unit to learn its ID.

With the thermostat off, press the following sequence of buttons:

'P', 'T', 'T', 'UP'.

An additional feature of your heater is the 'Back up Switch'

This allows the heater to be in operation in a basic functional manner without the remote control.

Its operation is fully described on page 17.

Frequently asked questions

Question	Corrective actions
Heater comes on at the wrong time.	<p>Check the programmed period start and finish times are correct.</p> <p>Check that AM or PM is correctly set.</p>
Heater comes on at the wrong temperature.	<p>Check the programmed period temperature setting is correct.</p> <p>Check that °C or °F is correctly specified.</p>
The time or day of the week is wrong.	Reset the time and day of the week as was required in the initial set up. Ref page 8.
Factory default settings have been lost.	<p>Once the default settings have been reset, the thermostat must be reprogrammed.</p> <p>See page 8. for initial set up and pages 9-11 for programming the automatic mode.</p>
The thermostat won't turn on or the display is blank.	<p>Check that the batteries are in place correctly.</p> <p>Replace the batteries with new batteries and see if thermostat display appears.</p> <p>Check safety interlock mode</p>
The screen back light is not working.	The back light will only appear when the thermostat is on.
The heater will not start.	Check safety interlock mode

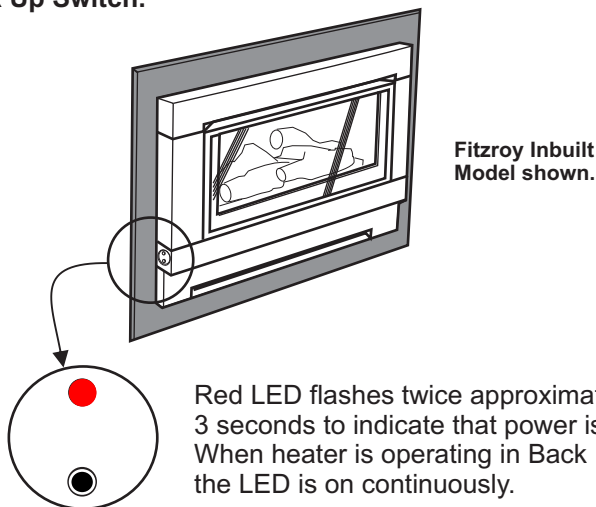
Normal operation:

If there is a request for heating, the heater will start up on Low Fire and Low Fan operation for approximately 3 minutes after which the heater will operate as necessary according to the selected temperature. When the heater is turned off, the flame will extinguish and the fan will continue to operate on Low speed for approximately 3 minutes to assist with cooling the heater.

Quick reference table

Function	Action	Page
Switch on/off	Press ' <i>PWR</i> ' & ' <i>OK</i> ' buttons at same time (then release)	8
Change between manual and automatic mode.	Press and release ' <i>A/M</i> ' button.	9
Increase / decrease temperature.	Press and release ' <i>UP</i> ' or ' <i>DOWN</i> ' button.	9
Set the clock and day of the week.	<p>With the thermostat off, press and hold the '<i>T</i>' button until the time, hour and <i>AM/PM</i> flash.</p> <p>Press and release the '<i>UP</i>' or '<i>DOWN</i>' buttons to increase or decrease the hour setting.</p> <p>Press and hold for the hour to increase or decrease 1 hour every 0.5 seconds.</p> <p>Press '<i>OK</i>' and set the minute setting similarly.</p> <p>Press '<i>OK</i>' and press and release the '<i>UP</i>' or '<i>DOWN</i>' buttons to change the day of the week.</p>	8
Program the thermostat	<p>With the thermostat off, press and hold the '<i>P</i>' button. Program 1 can now be set.</p> <p>To select Monday press '<i>OK</i>', or press and release '<i>UP</i>' or '<i>DOWN</i>' to change the day of the week, or to switch to the weekday or weekend setting.</p> <p>To set the period starting time, set the hour and minute setting similarly to setting the clock.</p> <p>Press '<i>OK</i>'. Press and release the '<i>UP</i>' or '<i>DOWN</i>' button to increase or decrease the temperature setting by 1°C.</p> <p>Press '<i>OK</i>'. Program 2 can now be set.</p> <p>Repeat the programming process for the 4 periods.</p>	10

Back Up Switch.



In the rare instance of the Hand Held Unit failing to operate, the heater can be operated manually by pressing the Back Up Switch button (once).

The switch is located where shown above.

For this Back Up Switch to operate correctly the batteries must be removed from the Hand Held Unit.

In this Back Up mode, the heater will start up on Low Fire and Low Speed Fan and then after approximately 3 minutes it will increase to High Fire and Medium Speed Fan. (Speed 2)

Turn off the heater, press the Back Up Switch (once), the fire will extinguish and the Fan will reduce to Low Speed and operate for approximately 3 minutes to assist with cooling down the heater.

In this mode there is no temperature control operation.

NOTES.

For Service

No user serviceable components are within the heater thermostat.
contact SampfordIXL for any required maintenance.

Ph: 1300 727 421 Fax: 1300 727 425

SampfordIXL

F3197
ISSUE 2 JAN 2009.

Sampford IXL
Phone: 1300 727 427
Facsimile: 1300 727 425